

<p>87-052984/08 A97 E21 G02 ALPS 03.07.85 ALPS ELECTRIC KK *J6 2007-772-A 03.07.85-JP-147475 (14.01.87) C09d-11 Ink compsn. for ink jet recording - comprises diazo-dye and glycol-type water-soluble organic solvent C87-022119</p>	<p>A(12-W7D, 12-W7E) E(21-B7) G(2-A4A, 2-A4B)</p>
<p>Ink compsn. for ink jet recording system comprises (A) a dye of formula (I) and (B) water or aq. mixt. of a water-soluble organic solvent for dissolving or dispersing the dye.</p> <div data-bbox="214 966 876 1176"> </div> <p>(I)</p> <p>Z₁, Z₂ = each independently (non)subst. 1-2C alkyl or subst. amino; and</p>	<p>R₃, R₄ = 1-2C alkyl.</p> <p>ADVANTAGE/USE The ink compsn. has quick response to signals, high stability for forming jetting droplets, high delivery stability and high printing stability for continuous and intermittent recording and forms images having high fastness to light, weathering and water.</p> <p>DETAILS In view of high solubility for the dye, the organic solvent is pref. (2-6C alkylene)glycol, glycerin or alkylene glycol mono-methyl- or -ethyl ether. It is used in an amt. of 5-95 wt. %.</p> <p>The dye is pref. C.I. Direct Black 154 (where Z₁=Z₂=NH₂ and R₃=R₄=CH₃). It is used in an amt. of 0.5-20 wt. %.</p> <p>The ink compsn. may be blended with thickening agent (e.g. PVA, cellulosic deriv. or water-soluble resin), surfactant (e.g. cationic, anionic or nonionic surfactant), surface tension controller (e.g. diethanolamine or triethanolamine).</p> <p>J62007772-A*</p>

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EXAMPLE

Ink compsn. was formulated from 5 wt. pts. C.I. Direct Black 154, 50 wt. pts. deionised water, 44 wt. pts. of diethylene glycol and 1 wt. pts. urea and pressure filtered through a Teflon filter having a pore size of 1 μ .

It showed high storage stability, delivery stability and printing performance without spreading from the printed dots and provided dotted images having high fastness to water, weathering and abrasion. (4ppW-59BLDwgNo.0/0).

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